

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV031723\
 Data File : VV030240.D
 Acq On : 17 Mar 2023 17:02
 Operator : SY/MD
 Sample : 01996-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 17 23:00:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 17 22:49:08 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	138761	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.796	117	126368	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	63174	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	32121	3.577	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.600%
7) Chloroethane-d5	1.539	69	30085	3.570	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.400%
11) 1,1-Dichloroethene-d2	2.076	63	1186620	64.285	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	1285.600%#
20) 2-Butanone-d5	3.812	46	83935	50.705	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.400%
24) Chloroform-d	4.262	84	83449	4.550	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.000%
26) 1,2-Dichloroethane-d4	4.953	65	36819	4.918	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.400%
32) Benzene-d6	4.969	84	130108	3.826	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.600%
36) 1,2-Dichloropropane-d6	5.998	67	40526	3.962	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	79.200%
41) Toluene-d8	7.252	98	113702	3.528	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.600%
43) trans-1,3-Dichloroprop...	7.564	79	14739	4.211	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.200%
46) 2-Hexanone-d5	8.037	63	68928	47.605	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.220%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	27716	3.808	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.200%
66) 1,2-Dichlorobenzene-d4	11.570	152	44232	4.138	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	28774	1.617	ug/L	93
6) Bromomethane	1.494	94	2042	0.962	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	6250	0.594	ug/L #	43
12) 1,1-Dichloroethene	2.076	96	1945751	208.945	ug/L #	71
16) Methylene chloride	2.455	84	4034	0.355	ug/L	80
18) trans-1,2-Dichloroethene	2.703	96	1237	0.140	ug/L	96
19) 1,1-Dichloroethane	3.121	63	119904	7.266	ug/L	99
22) cis-1,2-Dichloroethene	3.825	96	75758	7.737	ug/L	90
25) Chloroform	4.288	83	296843	17.292	ug/L	98
27) 1,2-Dichloroethane	5.063	62	2290	0.255	ug/L	99
29) 1,1,1-Trichloroethane	4.522	97	572642	38.576	ug/L	97
31) Carbon tetrachloride	4.748	117	15751	1.180	ug/L	97
33) Benzene	5.021	78	33167	0.961	ug/L	100
34) Trichloroethene	5.844	95	5548091	573.713	ug/L	93
35) Methylcyclohexane	5.998	83	10211	0.698	ug/L #	20
37) 1,2-Dichloropropane	5.995	63	5556	0.633	ug/L #	87
39) cis-1,3-Dichloropropene	6.918	75	1143	0.089	ug/L #	76
45) 1,1,2-Trichloroethane	7.940	97	300278	47.796	ug/L #	22
49) Dibromochloromethane	7.944	129	26734868	3636.637	ug/L #	10

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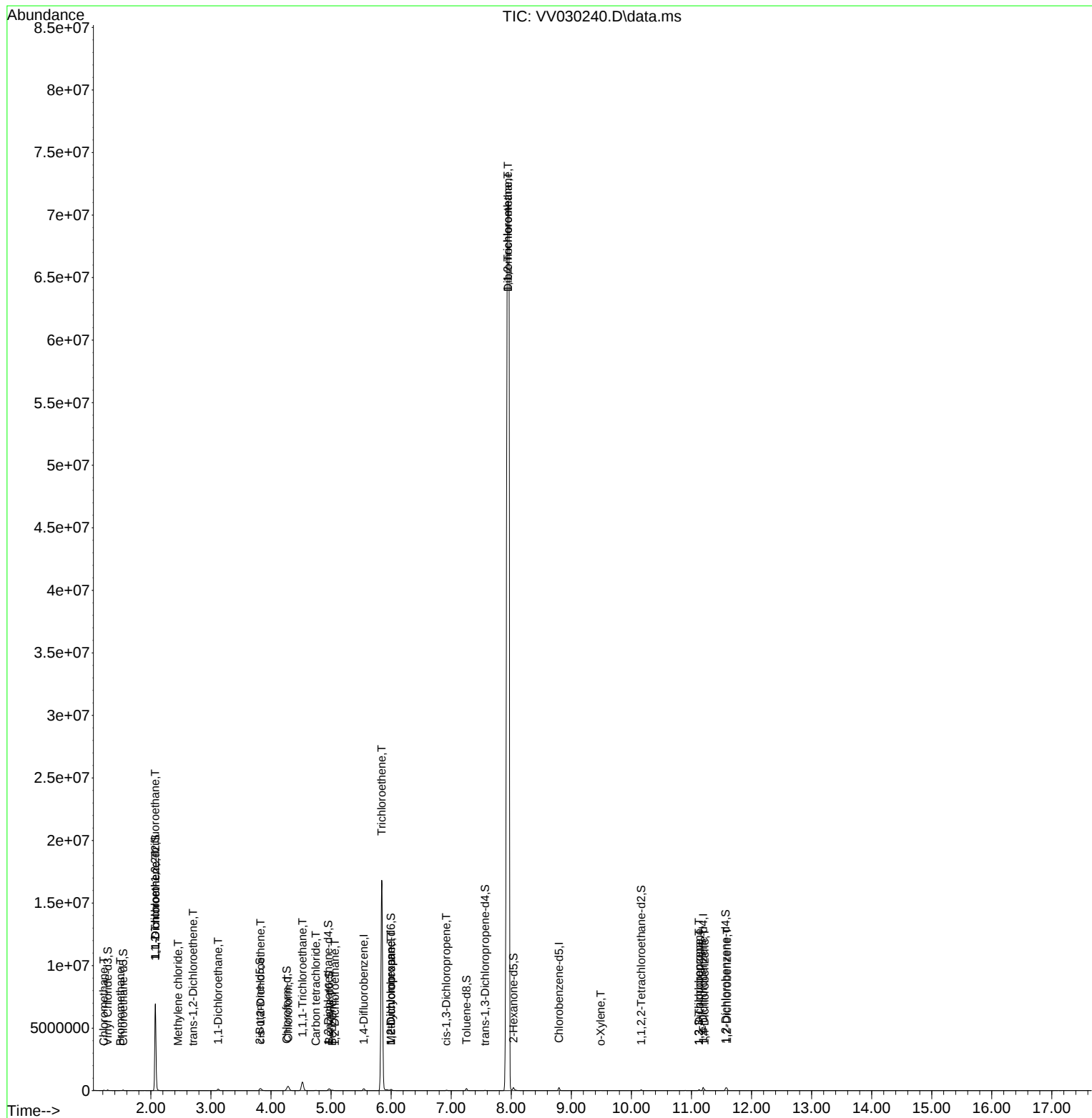
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.487	106	3184	0.213	ug/L	82
61) 1,2,3-Trichloropropane	11.127	75	8946	2.116	ug/L #	48
64) 1,3-Dichlorobenzene	11.127	146	29285	1.547	ug/L	98
65) 1,4-Dichlorobenzene	11.220	146	18518	0.970	ug/L	97
67) 1,2-Dichlorobenzene	11.590	146	67031	4.011	ug/L	99

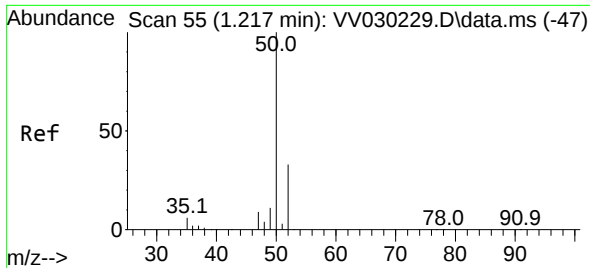
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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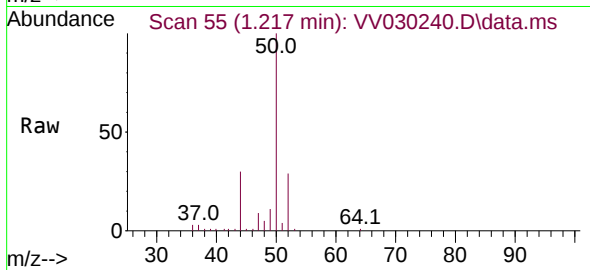
Quant Time: Mar 17 23:00:01 2023
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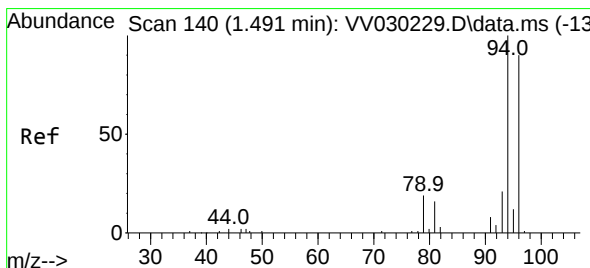
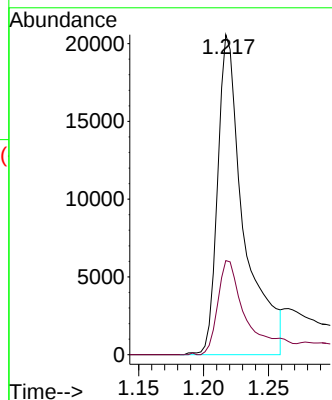
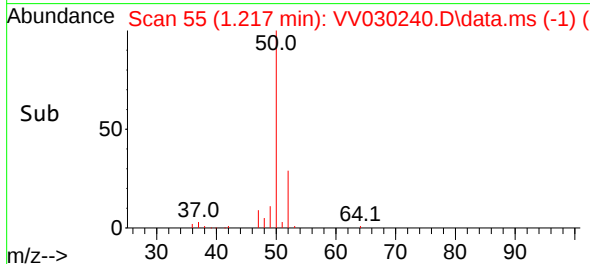


#3
Chloromethane
Concen: 1.617 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030240.D
Acq: 17 Mar 2023 17:02

Instrument :
MSVOA_V
ClientSampleId :

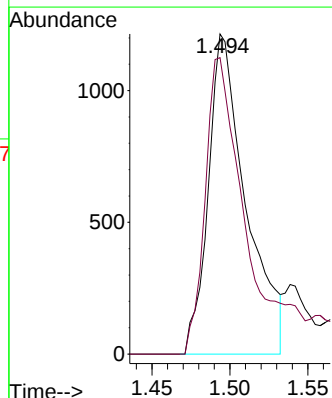
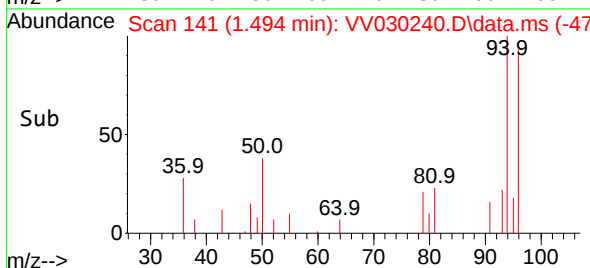
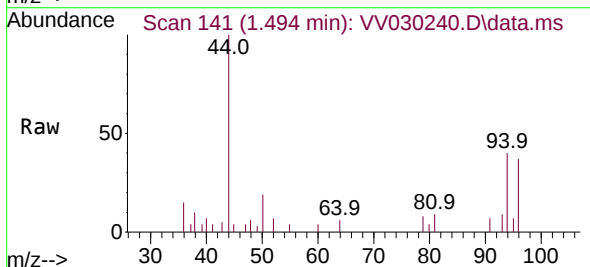


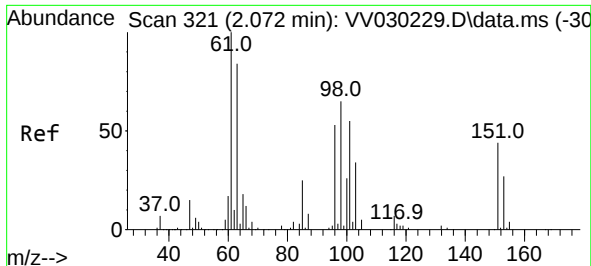
Tgt Ion: 50 Resp: 28774
Ion Ratio Lower Upper
50 100
52 29.4 23.6 43.8



#6
Bromomethane
Concen: 0.962 ug/L
RT: 1.494 min Scan# 141
Delta R.T. 0.003 min
Lab File: VV030240.D
Acq: 17 Mar 2023 17:02

Tgt Ion: 94 Resp: 2042
Ion Ratio Lower Upper
94 100
96 92.6 68.4 127.0

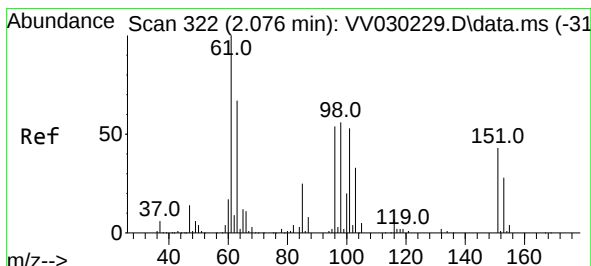
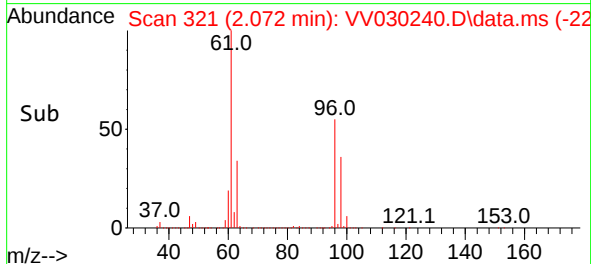
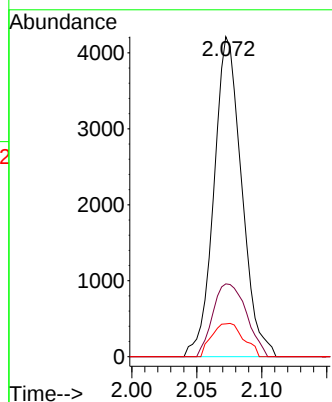
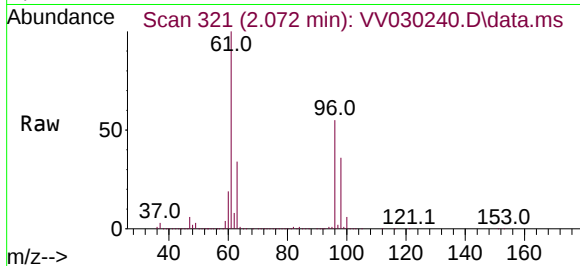




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.594 ug/L
 RT: 2.072 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV030240.D
 Acq: 17 Mar 2023 17:02

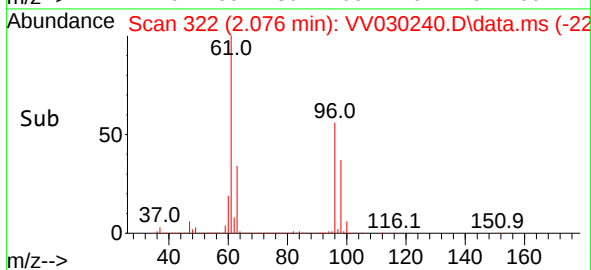
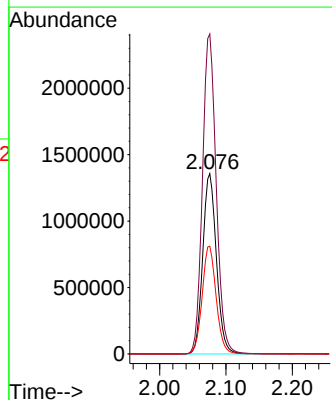
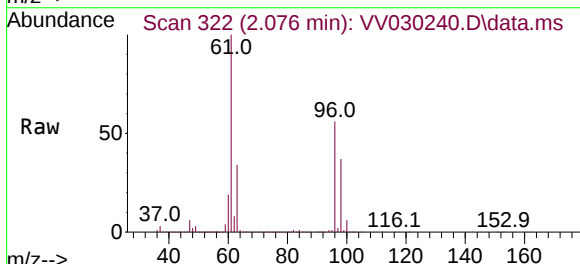
Instrument :
 MSVOA_V
 ClientSampleId :

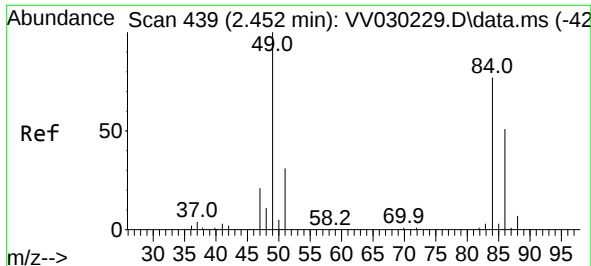
Tgt Ion:101 Resp: 6250
 Ion Ratio Lower Upper
 101 100
 85 27.6 33.5 50.3#
 151 11.9 61.6 92.4#



#12
 1,1-Dichloroethene
 Concen: 208.945 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. -0.000 min
 Lab File: VV030240.D
 Acq: 17 Mar 2023 17:02

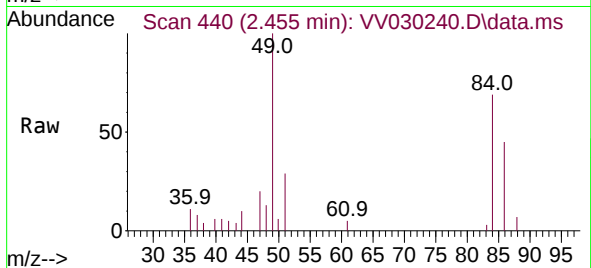
Tgt Ion: 96 Resp: 1945751
 Ion Ratio Lower Upper
 96 100
 61 177.5 115.6 214.6
 63 59.8 85.6 159.0#





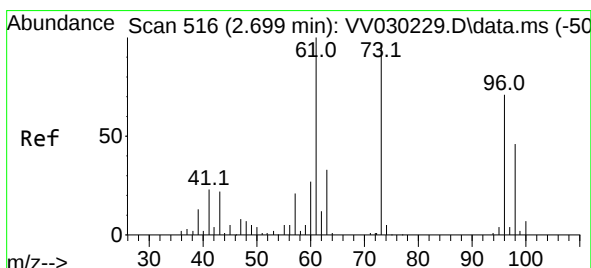
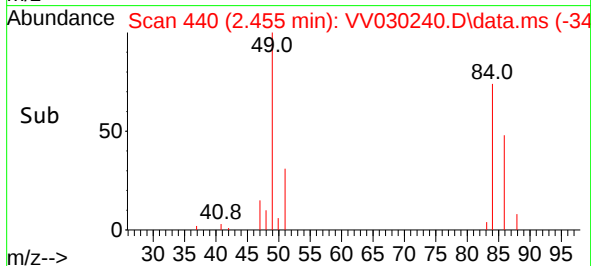
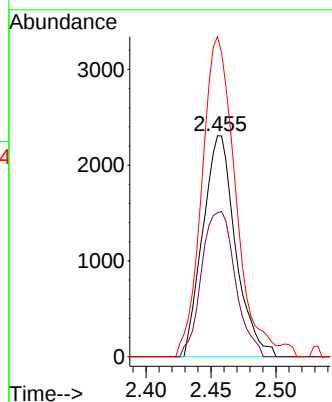
#16
Methylene chloride
Concen: 0.355 ug/L
RT: 2.455 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV030240.D
Acq: 17 Mar 2023 17:02

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 84 Resp: 4034

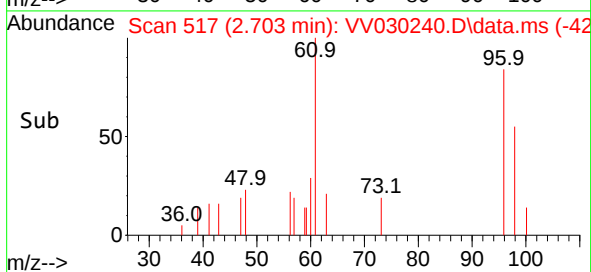
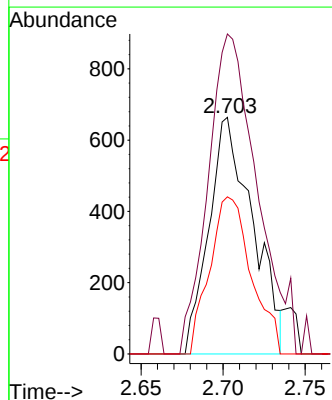
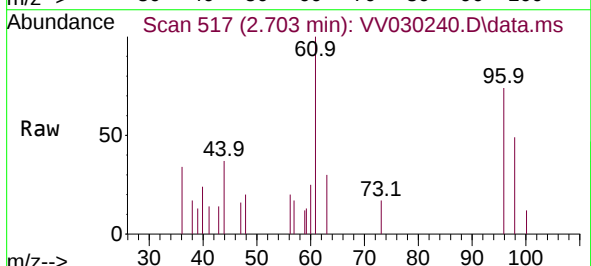
Ion	Ratio	Lower	Upper
84	100		
86	65.2	44.7	83.1
49	144.8	78.8	146.3

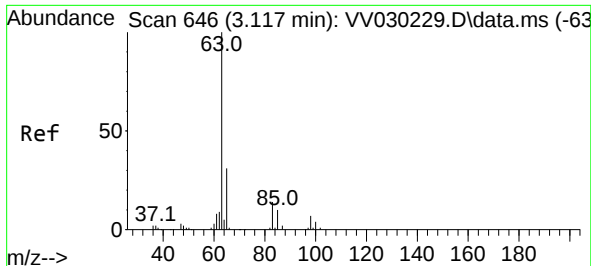


#18
trans-1,2-Dichloroethene
Concen: 0.140 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV030240.D
Acq: 17 Mar 2023 17:02

Tgt Ion: 96 Resp: 1237

Ion	Ratio	Lower	Upper
96	100		
61	135.2	91.0	169.0
98	66.4	45.2	84.0





#19

1,1-Dichloroethane

Concen: 7.266 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

ClientSampleId :

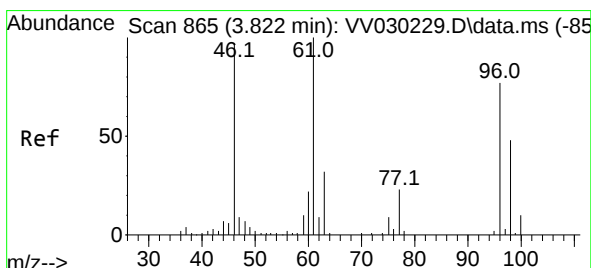
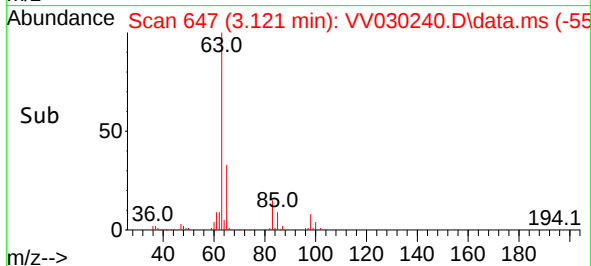
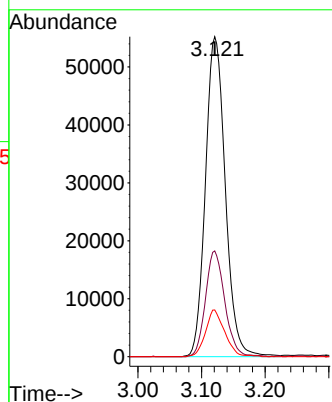
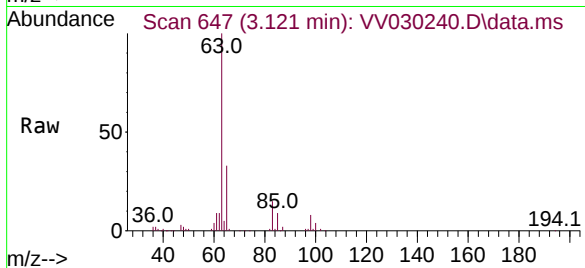
Tgt Ion: 63 Resp: 119904

Ion Ratio Lower Upper

63 100

65 33.0 23.0 42.8

83 14.6 9.6 17.8



#22

cis-1,2-Dichloroethene

Concen: 7.737 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.003 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

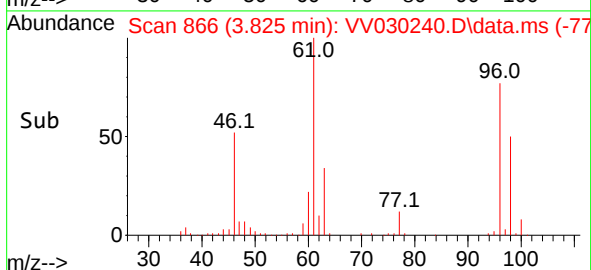
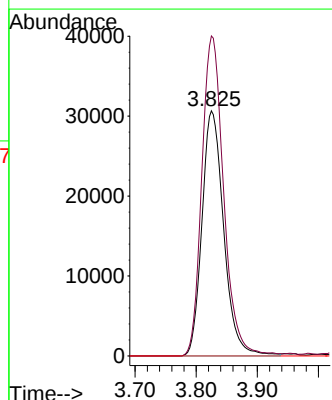
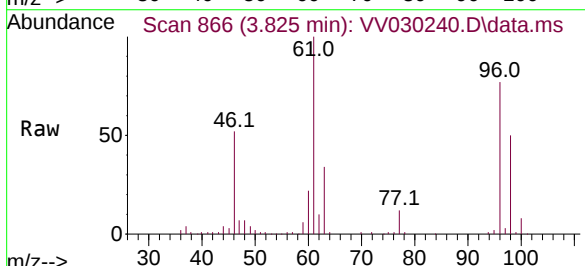
Tgt Ion: 96 Resp: 75758

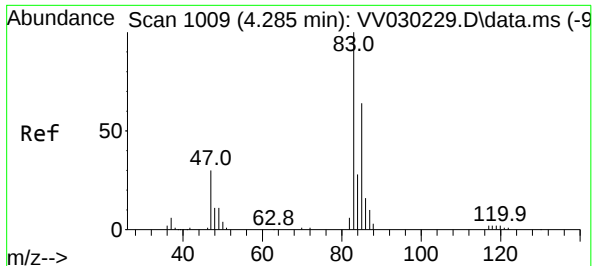
Ion Ratio Lower Upper

96 100

61 130.6 83.4 154.8

68 0.0 0.0 0.0





#25

Chloroform

Concen: 17.292 ug/L

RT: 4.288 min Scan# 1009

Delta R.T. 0.003 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

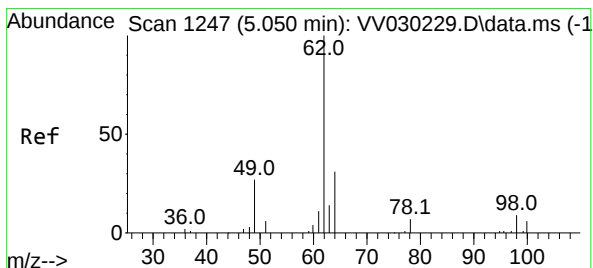
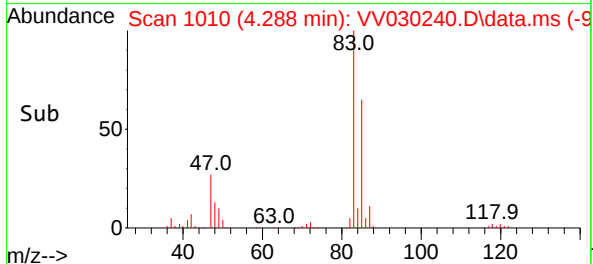
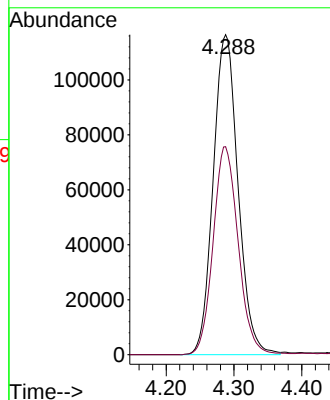
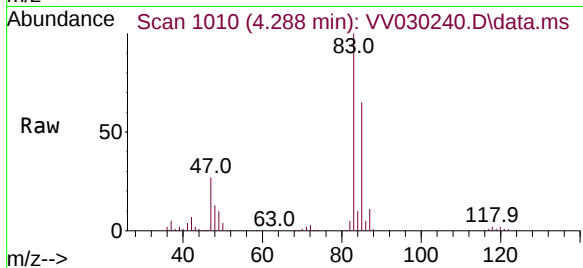
ClientSampleId :

Tgt Ion: 83 Resp: 296843

Ion Ratio Lower Upper

83 100

85 65.0 46.5 86.5



#27

1,2-Dichloroethane

Concen: 0.255 ug/L

RT: 5.063 min Scan# 1251

Delta R.T. 0.013 min

Lab File: VV030240.D

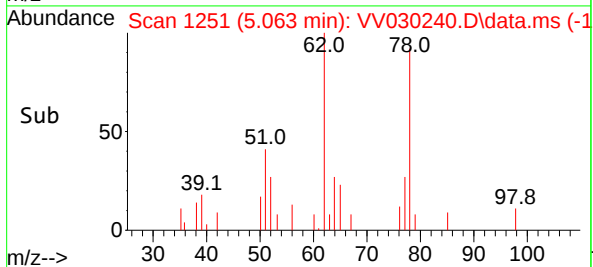
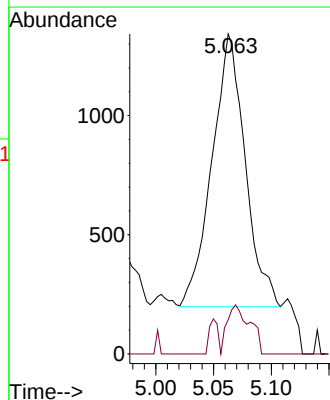
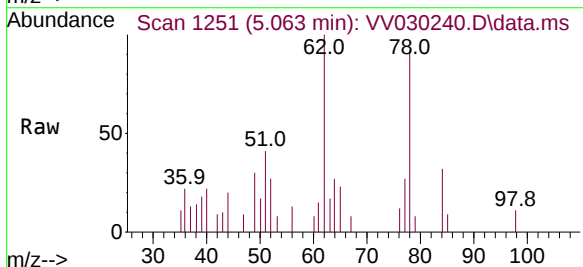
Acq: 17 Mar 2023 17:02

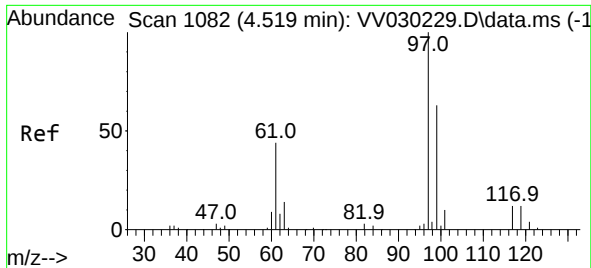
Tgt Ion: 62 Resp: 2290

Ion Ratio Lower Upper

62 100

98 10.7 9.0 13.4





#29

1,1,1-Trichloroethane

Concen: 38.576 ug/L

RT: 4.522 min Scan# 1082

Delta R.T. 0.003 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

ClientSampleId :

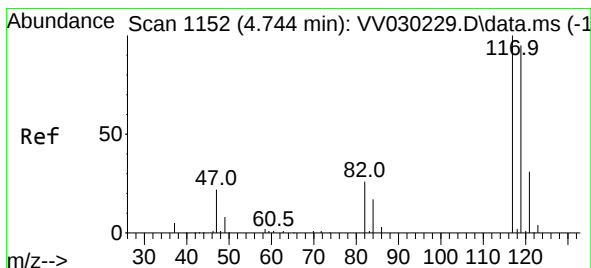
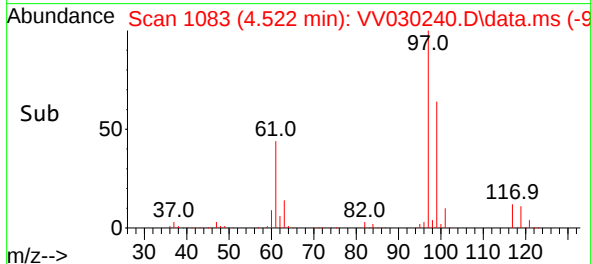
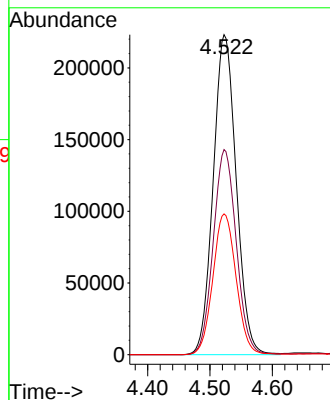
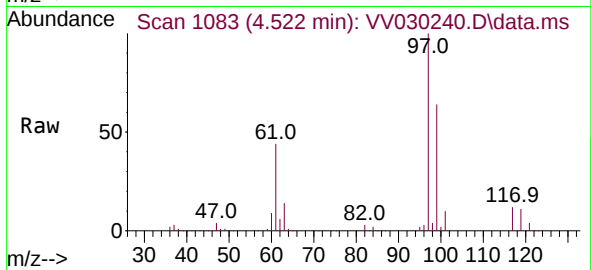
Tgt Ion: 97 Resp: 572642

Ion Ratio Lower Upper

97 100

99 64.2 51.3 76.9

61 44.5 31.5 47.3



#31

Carbon tetrachloride

Concen: 1.180 ug/L

RT: 4.748 min Scan# 1153

Delta R.T. 0.003 min

Lab File: VV030240.D

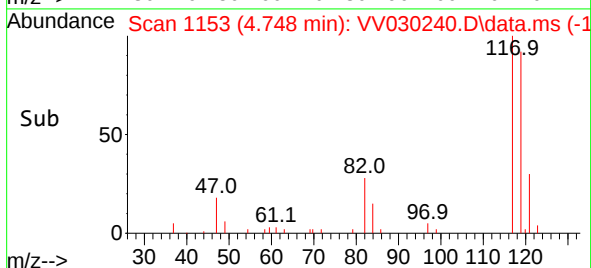
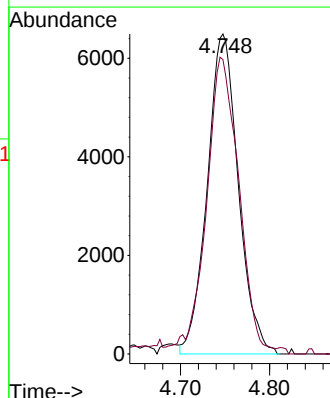
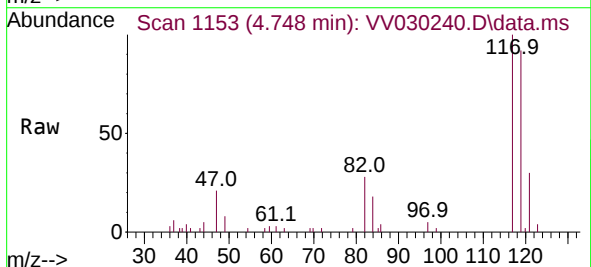
Acq: 17 Mar 2023 17:02

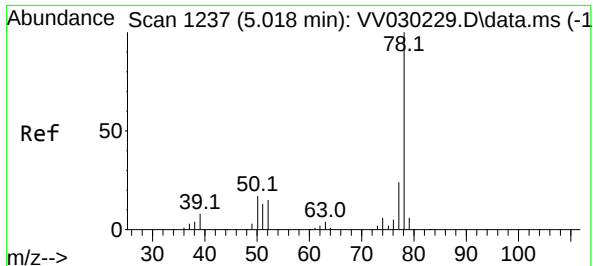
Tgt Ion: 117 Resp: 15751

Ion Ratio Lower Upper

117 100

119 91.9 76.1 114.1

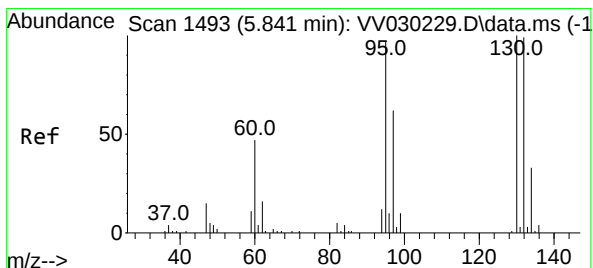
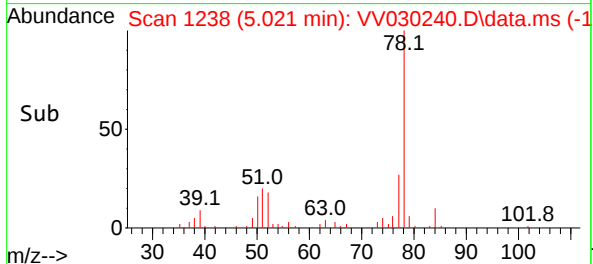
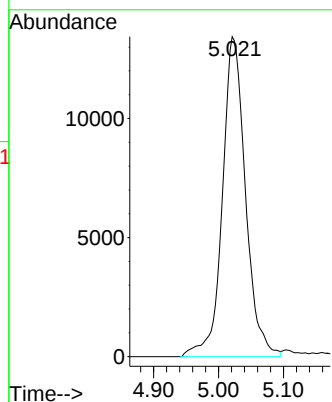
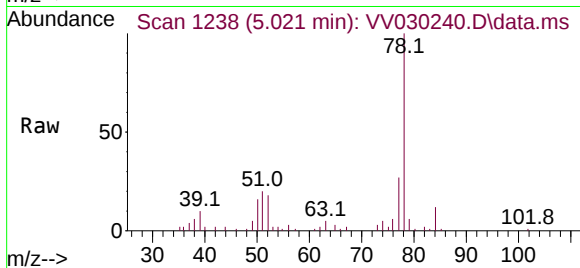




#33
Benzene
Concen: 0.961 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030240.D
Acq: 17 Mar 2023 17:02

Instrument :
MSVOA_V
ClientSampleId :

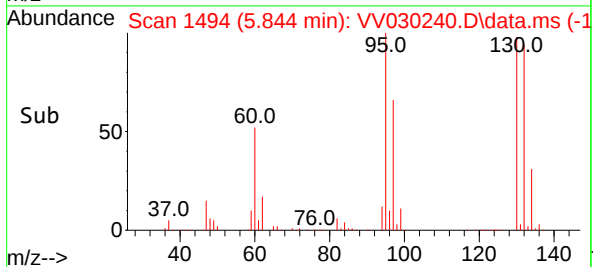
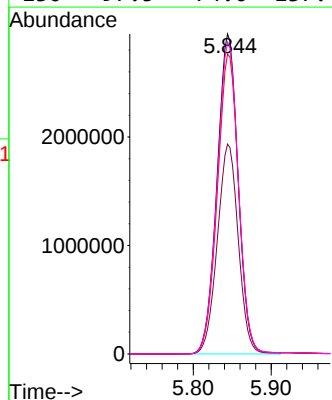
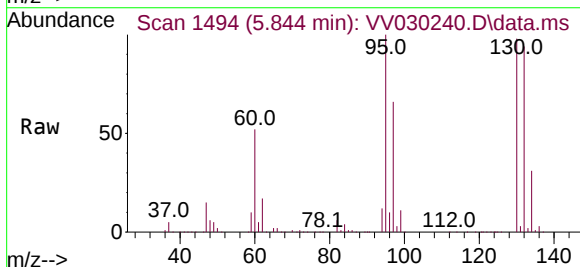
Tgt Ion: 78 Resp: 33167

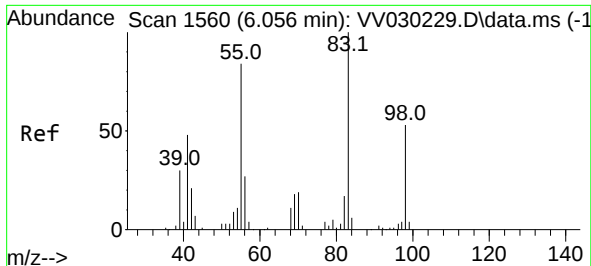


#34
Trichloroethene
Concen: 573.713 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.003 min
Lab File: VV030240.D
Acq: 17 Mar 2023 17:02

Tgt Ion: 95 Resp: 5548091

Ion	Ratio	Lower	Upper
95	100		
97	65.6	46.5	86.5
132	93.7	71.7	133.3
130	97.5	74.0	137.4





#35

Methylcyclohexane

Concen: 0.698 ug/L

RT: 5.998 min Scan# 1

Delta R.T. -0.058 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

ClientSampleId :

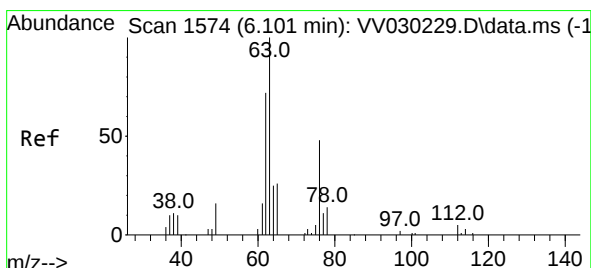
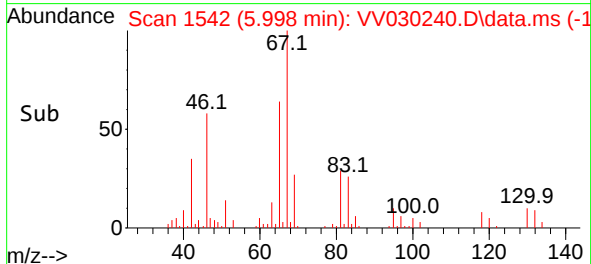
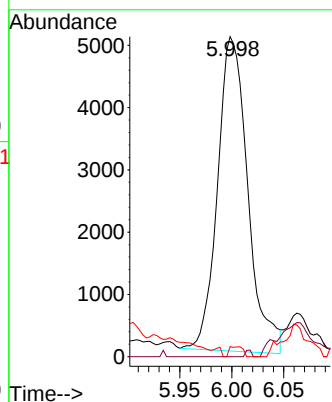
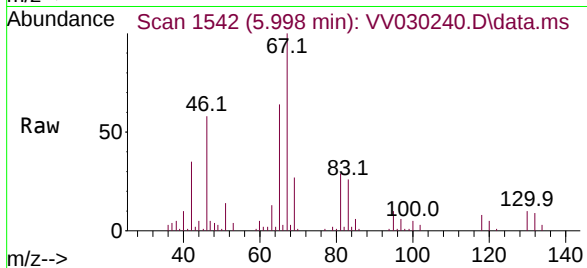
Tgt Ion: 83 Resp: 10211

Ion Ratio Lower Upper

83 100

55 0.4 57.6 86.4#

98 0.0 38.8 58.2#



#37

1,2-Dichloropropane

Concen: 0.633 ug/L

RT: 5.995 min Scan# 1541

Delta R.T. -0.106 min

Lab File: VV030240.D

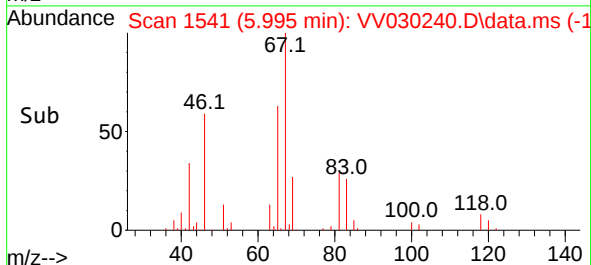
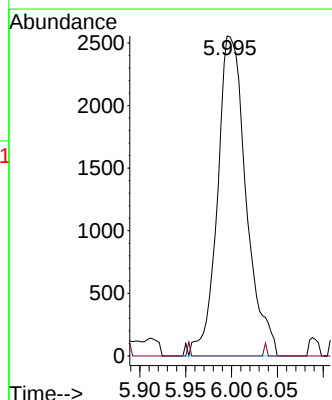
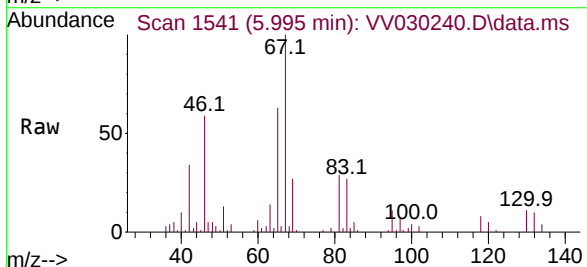
Acq: 17 Mar 2023 17:02

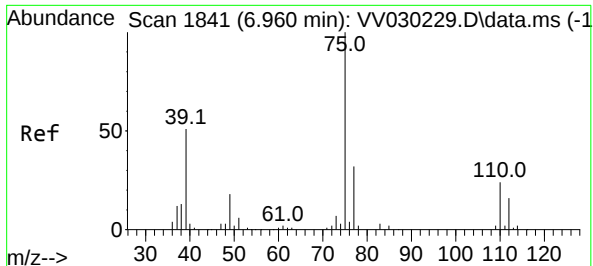
Tgt Ion: 63 Resp: 5556

Ion Ratio Lower Upper

63 100

112 0.4 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.089 ug/L

RT: 6.918 min Scan# 1143

Delta R.T. -0.042 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

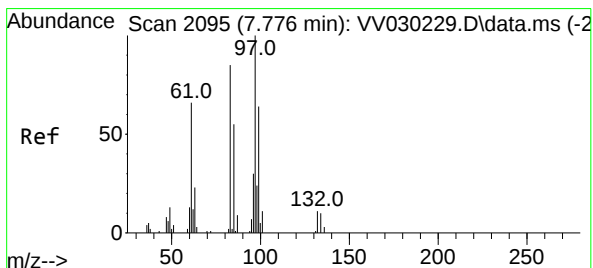
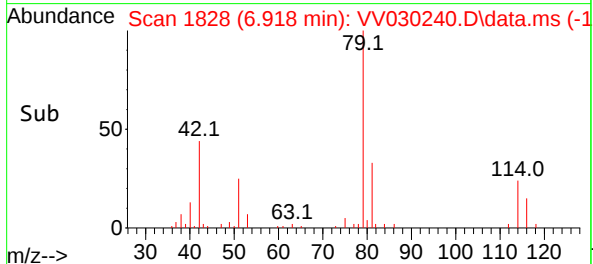
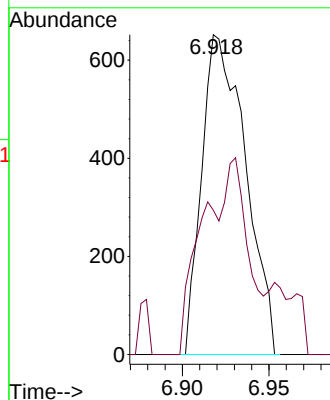
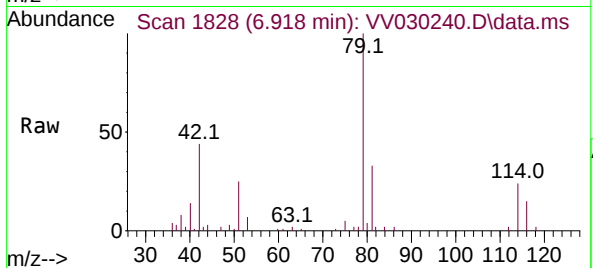
ClientSampleId :

Tgt Ion: 75 Resp: 1143

Ion Ratio Lower Upper

75 100

77 45.1 22.3 41.3#



#45

1,1,2-Trichloroethane

Concen: 47.796 ug/L

RT: 7.940 min Scan# 2146

Delta R.T. 0.164 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Tgt Ion: 97 Resp: 300278

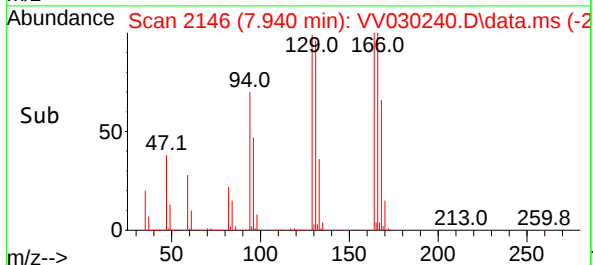
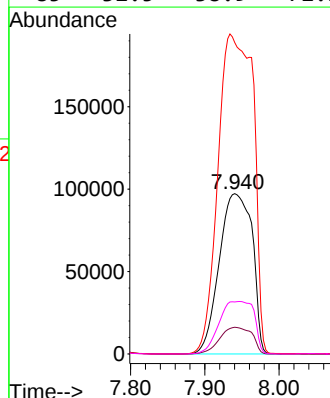
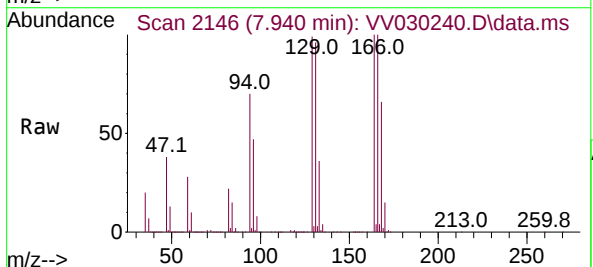
Ion Ratio Lower Upper

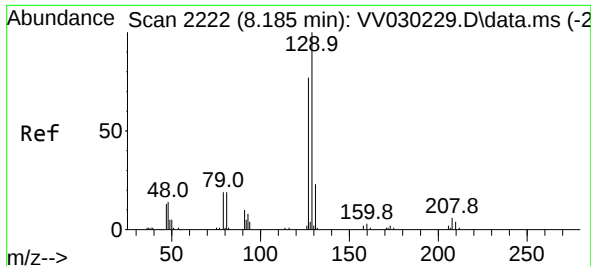
97 100

99 16.6 42.6 79.2#

83 194.2 57.7 107.3#

85 32.5 38.9 72.2#





#49

Dibromochloromethane

Concen: 3636.637 ug/L

RT: 7.944 min Scan# 2147

Delta R.T. -0.241 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

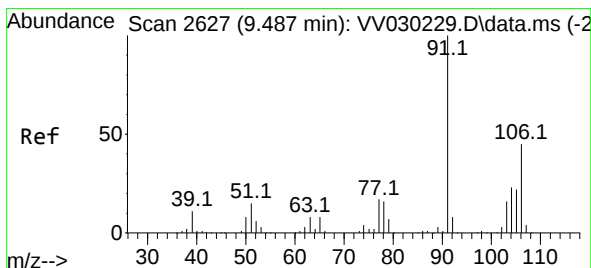
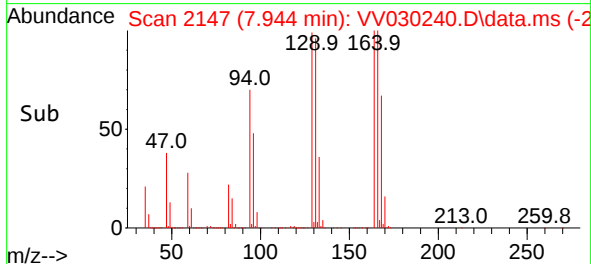
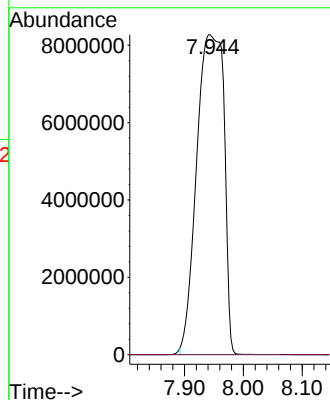
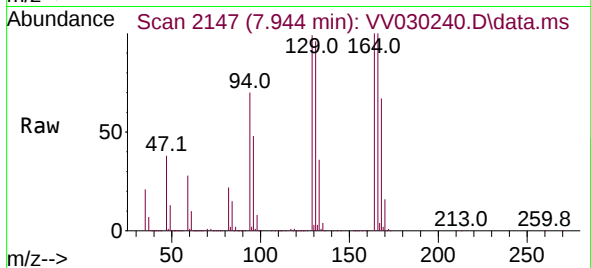
ClientSampleId :

Tgt Ion:129 Resp:26734868

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



#54

o-Xylene

Concen: 0.213 ug/L

RT: 9.487 min Scan# 2627

Delta R.T. -0.000 min

Lab File: VV030240.D

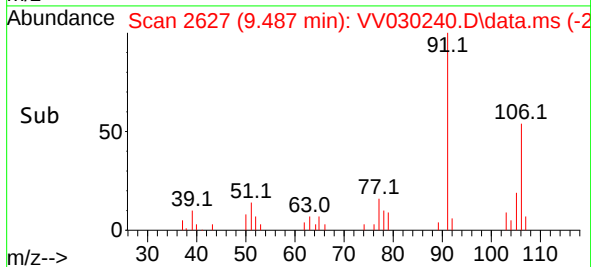
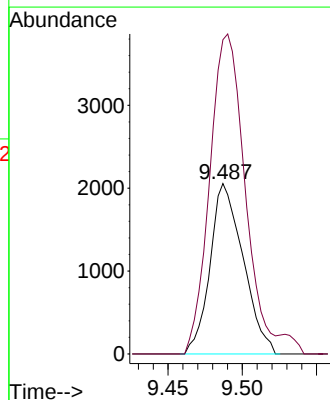
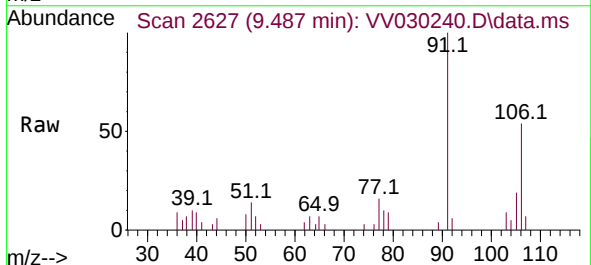
Acq: 17 Mar 2023 17:02

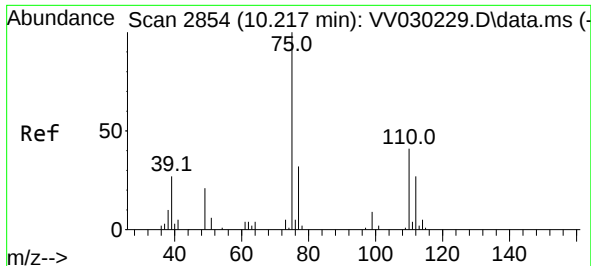
Tgt Ion:106 Resp: 3184

Ion Ratio Lower Upper

106 100

91 184.4 148.8 276.4





#61

1,2,3-Trichloropropane

Concen: 2.116 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.910 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

ClientSampleId :

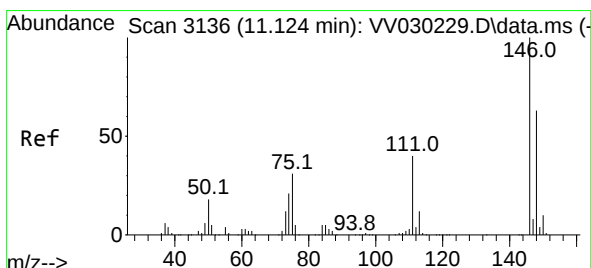
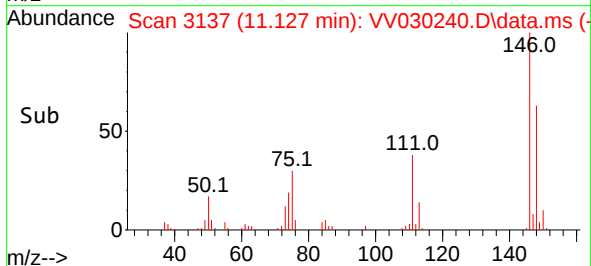
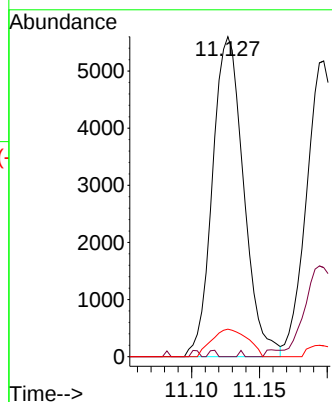
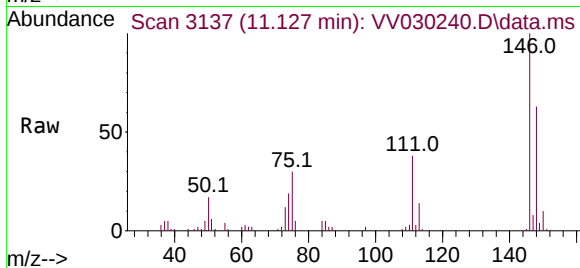
Tgt Ion: 75 Resp: 8946

Ion Ratio Lower Upper

75 100

77 1.7 26.5 39.7#

110 9.8 31.8 47.6#



#64

1,3-Dichlorobenzene

Concen: 1.547 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.003 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

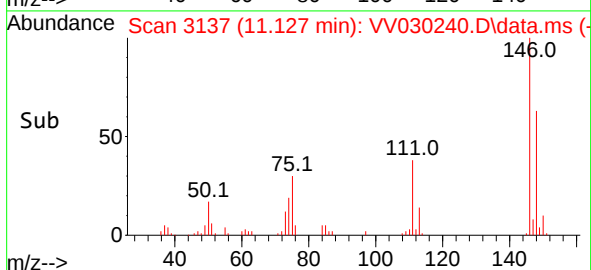
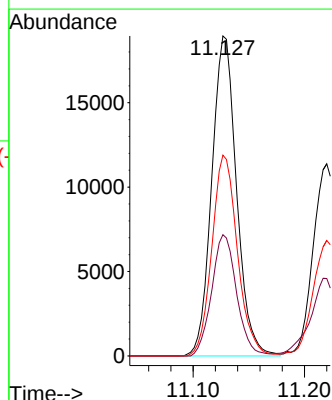
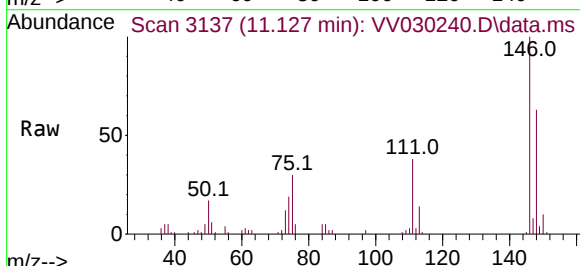
Tgt Ion:146 Resp: 29285

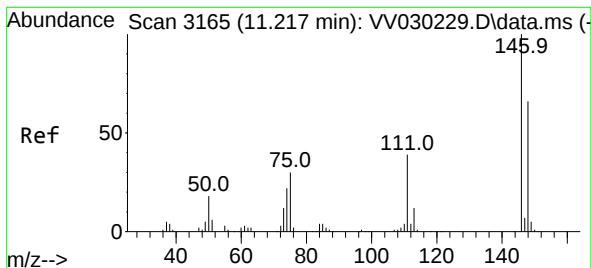
Ion Ratio Lower Upper

146 100

111 37.9 27.7 51.5

148 62.8 44.5 82.7





#65

1,4-Dichlorobenzene

Concen: 0.970 ug/L

RT: 11.220 min Scan# 3166

Delta R.T. 0.003 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Instrument :

MSVOA_V

ClientSampleId :

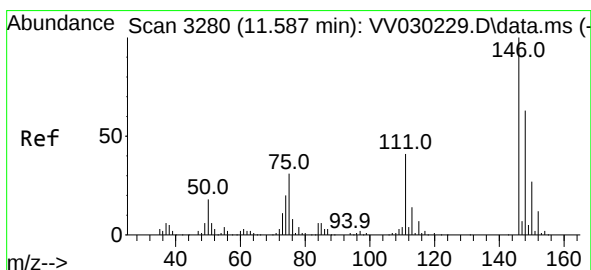
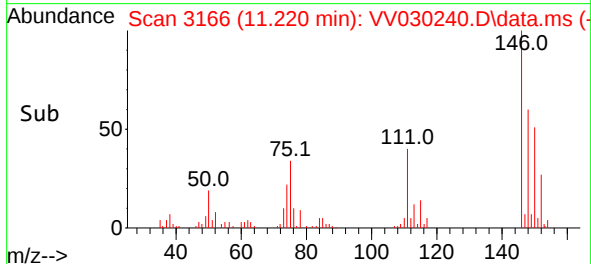
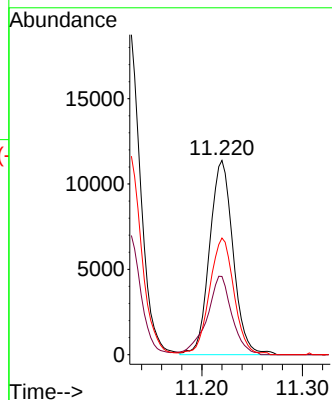
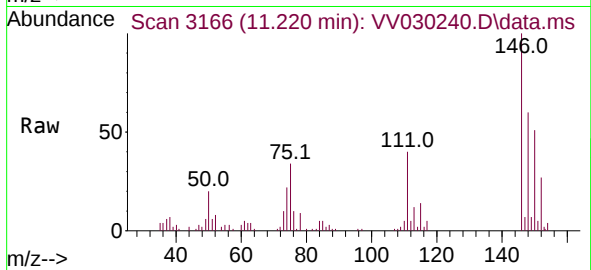
Tgt Ion:146 Resp: 18518

Ion Ratio Lower Upper

146 100

111 40.3 27.4 51.0

148 60.1 44.1 81.9



#67

1,2-Dichlorobenzene

Concen: 4.011 ug/L

RT: 11.590 min Scan# 3281

Delta R.T. 0.003 min

Lab File: VV030240.D

Acq: 17 Mar 2023 17:02

Tgt Ion:146 Resp: 67031

Ion Ratio Lower Upper

146 100

111 42.4 33.5 50.3

148 65.3 51.3 76.9

